Title (en)
SYSTEMS AND METHODS FOR DATA MESSAGE DECODING AND ASSET TYPE FINGERPRINTING

Title (de)
SYSTEME UND VERFAHREN ZUR DECODIERUNG VON DATENNACHRICHTEN UND ZUM FINGERPRINTING VON ANLAGEN

Title (fr)
SYSTÈMES ET PROCÉDÉS DE DÉCODAGE DE MESSAGES DE DONNÉES ET DE PRISE D'EMPREINTES DIGITALES DE TYPE ACTIFS

Publication
EP 4064649 A1 20220928 (EN)

Application
EP 22161245 A 20220310

Priority
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- US 202117212224 A 20210325

Abstract (en)
Systems and methods for signal definition generation and asset type fingerprinting are provided. An example method for signal definition generation involves providing access to undecoded data messages received from an asset to an asset data analysis system, attempting to match an undecoded data signal constructed from the undecoded data messages to a reference signal constructed from data messages of a data message type for which there is an existing signal definition in a library of signal definitions, and in response to a successful match, generating a proposed signal definition that indicates how a data message having a format of the undecoded data signal is to be decoded into asset information.

IPC 8 full level
H04L 67/12 (2022.01)

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H04L 12/40013 (2013.01 - US); **H04L 12/40071** (2013.01 - US); **H04L 12/40104** (2013.01 - US); **H04L 67/12** (2013.01 - EP US); H04L 2012/40215 (2013.01 - US); H04L 2012/40273 (2013.01 - US)

Citation (search report)
- [Y] US 2020015048 A1 20200109 - MENDES CHRISTOPHER J [CA], et al
- [Y] YOUNG CLINTON ET AL: "Towards Reverse Engineering Controller Area Network Messages Using Machine Learning", 2020 IEEE 6TH WORLD FORUM ON INTERNET OF THINGS (WF-IOT), IEEE, 2 June 2020 (2020-06-02), pages 1 - 6, XP033840995, DOI: 10.1109/WF-IOT48130.2020.9221383

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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DOCDB simple family (application)
EP 22161826 A 20220314; EP 22161245 A 20220310; US 202117212224 A 20210325